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(71) Applicant (*for all designated States except US*): **BASELL
POLYOLEFINE GMBH [DE/DE]**; Brühler Strasse 60,
50389 Wesseling (DE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MIHAN, Shahram** [IR/DE]; Rossinistr. 12, 67061 Ludwigshafen (DE). **NIFANT'EV, IIYA** [RU/RU]; 26 Bakinskikh Komissarov St., Appt. 60, 12/3, 117526 Moscow (RU).

(74) Agent: **BASELL POLYOLEFINE GMBH**; Intellectual
Property - F 206, Carl-Bosch-Str. 38, 67056 Ludwigshafen
(DE).

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(54) Title: MONOCYCLOPENTADIENYL COMPLEXES

(57) Abstract: Monocyclopentadienyl complexes in which the cyclopentadienyl system bears at least one unsubstituted, substituted or fused, heteroaromatic ring system bound via a specific bridge, a catalyst system comprising at least one of the monocyclopentadienyl complexes, the use of the catalyst system for the polymerization or copolymerization of olefins and a process for preparing polyolefins by polymerization or copolymerization of olefins in the presence of the catalyst system and polymers obtainable in this way.